

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Assistant Commissioner for Patents
Washington, D.C. 20231

2621 2727
PATENT
Attorney Docket No.: 80142-000000US
Client Reference No.: 80021-131
#6

On November 16, 2000

TOWNSEND and TOWNSEND and CREW LLP

By: *Paul W. [Signature]*

RECEIVED

DEC 01 2000

Technology Center 2600



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Celler et al.

Application No.: 09/435,458 •

Filed: November 5, 1999 •

For: METHOD AND APPARATUS FOR
PRODUCING A REPRESENTATION
OF A MEASURABLE PROPERTY
WHICH VARIES IN TIME AND
SPACE, FOR PRODUCING AN IMAGE
REPRESENTING CHANGES IN
RADIOACTIVITY IN AN OBJECT AND
FOR ANALYZING TOMOGRAPHY
SCAN IMAGES

Examiner:

Art Unit: 2721

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

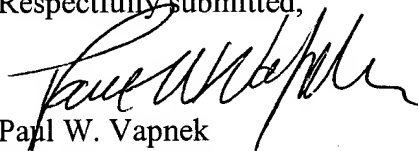
Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Paul W. Vapnek
Reg. No. 24,185

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
Tel: 415-576-0200
Fax: 415-576-0300
PWV:bj

SF 1160759 v1

RECEIVED
DEC 01 2000
Technology Center 2600

(Use several sheets if necessary)

80142-0 (80021-

09/435,458

A. Celler et al.

November 5, 1999

2721

[illegible][illegible]

	AA	Eugene Veklerov, "How to Compute the Difference between Tomographic Images", IEEE Transactions on Medical Imaging, Vol. 13, No. 3, September, 1994, pp. 566-569.

DATE CONSIDERED

Form PTO-A820
(also form PTO-1449)

P09A/REV04

Patent and Trademark Office * U.S. DEPARTMENT OF COMMERCE

SHEET 1 OF 1

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

80142-0 (80021-)

Application Number

09/435,458

Applicant(s)

A. Celler et al.

Filing Date

November 5, 1999

Group Art Unit

2721

*EXAMINER

INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AA

H.H. Bauschke, D. Noll, A. Celler and J.M. Borwein, "An EM algorithm for Dynamic SPECT", IEEE Trans. Med. Img. Vol. 18, No. 3, March 1999, pp. 252-261.

ABCE

A. Celler, T. Farncombe, R. Harrop and D. Lyster, "Dynamic Heart-in-Thorax Phantom for Functional SPECT", IEEE Trans. Nucl. Sci. Vol. 44, No. 4, August 1997, pp. 1600-1605.

AC

E. Hebber, D. Oldenburg, T. Farncombe, A. Celler, "Direct Estimation of Dynamic Parameters in SPECT Tomography", IEEE Trans. Nucl. Sci. Vol. 44, No. 6, December 1997, pp. 2425-2430.

AD

M.A. Limber, M.N. Limber, A. Celler, J.S. Barney and J.M. Borwein, "Direct Reconstruction of Functional Parameters for Dynamic SPECT", IEEE Trans. Nucl. Sci. Vol. 42, No. 4, August 1995, pp. 1249-1256.

AE

T. Farncombe, A. Celler, D. Noll, J. Maeght and R. Harrop, "Dynamic SPECT Imaging Using a Single Camera Rotation (dSPECT)", IEEE Trans. Nucl. Sci. Vol. 46, No. 4, August 1999, pp. 1055-1061.

AF

A. Celler, T. Farncombe, D. Noll, J. Maeght and R. Harrop, Abstract "Kinetic Parameter Estimation from Dynamic SPECT Studies", Proc. 45th Annual Society of Nuclear Medicine Meeting, Toronto, Ontario, June 7-11, 1998.

AG

T. Farncombe, A. Celler, D. Noll, J. Maeght and R. Harrop, "An Evaluation of Dynamic SPECT Imaging Methods", IEEE NSS/MIC 1998 Conference Proceedings, Toronto, Ontario, November 11-14, 1998.

AH

A. Celler, T. Farncombe, R. Harrop, D. Noll, J. Maeght and D. Lyster, "Three Approaches to Dynamic SPECT Imaging", IEEE NSS/MIC 1997 Conference Proceedings, Albuquerque, New Mexico, November 13-15, 1997.

AI

A. Celler, T. Farncombe, D. Noll, J. Maeght and R. Harrop, "Optimization of Acquisition and Reconstruction Protocols for Dynamic Single Photon Emission Computed Tomography (dSPECT)", Proc. 1999 International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine, Egmond aan Zee, The Netherlands, June 23-26, 1999, pp.189-192.

AJ

T. Farncombe, A. Celler, D. Noll, J. Maeght and R. Harrop, Abstract "A Method for Dynamic SPECT Imaging Using Any Camera Geometry", Proc. Canadian Society of Nuclear Medicine Annual Scientific Meeting, Banff, Alberta, March 27-31, 1999, p. 25.

AK

A. Celler, T. Farncombe and R. Harrop, "Functional Dynamic SPECT Imaging", 43rd Annual Scientific Meeting of the Canadian Organization of Medical Physicists, Charlottetown, P.E.I., July 10-12, 1997, pp. 200-202.

AL

A. Celler, T. Farncombe, R. Harrop and D. Lyster, "Dynamic Heart-in-Thorax Phantom for Functional SPECT", IEEE NSS/MIC 1996 Conference Proceedings, Anaheim, California, November 1996, pp. 1893-1897.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional)

80142-0 (80021-)

Application Number

09/435,458

Applicant(s)

A. Celler et al.

Filing Date

November 5, 1999

Group Art Unit

2721

*EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

E. Haber, D. Oldenburg, T. Farncombe and A. Celler, "Quantitative Dynamic SPECT Tomography", IEEE NSS/MIC 1996 Conference Proceedings, Anaheim, California, November 1996, pp. 1876-1880.

A. Celler, L. van de Lagemaat, T. Farncombe, R. Harrop and D. Lyster, Abstract "Thorax Phantom for Dynamic Functional SPECT Imaging", 1996 Society of Nuclear Medicine Meeting, Denver, Colorado, June, 1996, J. Nucl. Med., Vol. 37, No. 5, May 1996 Supplement, p. 219P.

A. Celler, M.A. Limber, M.N. Limber, J.S. Barney, J.M. Borwein and D. Lyster, "Dynamic SPECT Imaging", Proc. 4th Medical Physics Workshop: Functional and Quantitative Imaging", Vancouver, British Columbia, October 1995.

A. Celler, J.S. Barney, D. Lyster, M.N. Limber and M.A. Limber, Abstract "Dynamic SPECT for Assessment of Myocardial Viability", 6th World Congress of the World Federation of Nuclear Medicine and Biology, Sydney, Australia, October, 1994, Eur. J. Nucl. Med., Vol. 21 (Suppl.), p. S-65.

M.A. Limber, M.N. Limber, A. Celler, J.S. Barney and J.M. Borwein, "Direct Reconstruction of Functional Parameters for Dynamic SPECT", IEEE Medical Imaging Conference, Norfolk, Virginia, November, 1994, IEEE NSS/MIC 1994 Conference Proceedings, pp. 1207-1211.

H.H. Bauschke, D. Noll, A. Celler and J.M. Borwein, "An EM-algorithm for Dynamic SPECT Tomography", CECM (Simon Fraser University) Internal Research Report 997-092, March, 1997.

T. Farncombe, A. Celler, C. Bever, D. Noll, J. Maeght and R. Harrop, "The Incorporation of Organ Uptake into Dynamic SPECT (dSPECT) Image Reconstruction", IEEE Medical Imaging Conference, Seattle, Washington, October, 1999, IEEE NSS/MIC 1999 Conference Proceedings.

J.M. Borwein, W. Sun, "The Stability Analysis of Dynamic SPECT Systems", Numerische. Math, 77 (1977), pp. 283-298.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.